



Australian Laboratory Services Pty. Ltd.

32 Shand Street  
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www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate  
Accreditation No: 825, Corporate Site No: 818.

## CERTIFICATE

The following have access to data associated with this certificate:

To: **ALS MINERALS - SALES**  
**ATTN: ALS MINERALS**  
  
**CANADA**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

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Plus Appendix Pages

Finalized Date: 18-NOV-2016

Account: MICK

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-MS61	48 element four acid ICP-MS	

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Finalized Date: 18-NOV-2016  
Account: MICK

**CERTIFICATE OF ANALYSIS BU16192452**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-TL43 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
S0043		1.13	0.001	0.04	4.59	8.8	290	1.56	0.24	14.20	0.06	52.5	14.6	55	9.32	13.0



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**CERTIFICATE OF ANALYSIS    BU16192452**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
S0043		3.00	13.50	0.12	2.7	0.044	3.06	23.5	92.7	4.63	587	0.39	0.24	10.6	32.4	330

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**CERTIFICATE OF ANALYSIS BU16192452**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
S0043		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
		49.8	160.5	<0.002	0.52	0.36	9.3	1	2.4	321	0.75	<0.05	11.75	0.276	0.69	2.0



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**CERTIFICATE OF ANALYSIS BU16192452**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
S0043		58	1.3	20.2	49	98.6



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**CERTIFICATE OF ANALYSIS BU16192452**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method:

REE's may not be totally soluble in this method.  
ME-MS61

**ACCREDITATION COMMENTS**

Applies to Method:

NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist.  
Au-TL43 ME-MS61

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. NATA Accreditation does not cover the performance of  
ALS Brisbane Sample Preparation which is processed at 116 Delta Street, Geebung, QLD 4034, Australia  
Au-TL43 ME-MS61

Applies to Method:

Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.  
CRU-21 LEV-01

PUL-31b

WEI-21